

BSc Sem 5 Examination

CC - 301

Env. Science

May 2022

Time : 2-00 Hours]

[Max. Marks : 50

- Instructions:** (1) All Questions in **Section I** carry equal Marks.
 (2) Attempt any **THREE** questions in **Section I**.
 (3) Questions IX in **Section II** is **Compulsory**.
 (4) Draw Figures where necessary. Show question number against each answer.
 (5) Figures in right are marks.

Section-I

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|---|----------|
| 1. (A) Explain Types of Food Chain. | 7 |
| (B) Describe Ecological Pyramids. | 7 |
| 2. (A) Detailed Note on synthetic characteristics of ecology. | 7 |
| (B) Explain analytical characteristics of ecology. | 7 |
| 3. (A) Short note on India is mega diversity Nation. | 7 |
| (B) Describe Terrestrials Biomes with examples. | 7 |
| 4. (A) Give tropical forest and desert biomes with examples. | 7 |
| (B) Describe Tundra and Grassland biomes. | 7 |
| 5. (A) Explain Ecological Succession process. | 7 |
| (B) Describe primary and secondary succession process. | 7 |
| 6. (A) Short Note on Antagonism and Mutualism process. | 7 |
| (B) Describe commensalism and Parasitism process. | 7 |
| 7. (A) Give detail Note on Xerophytes with examples. | 7 |
| (B) Describe Hydrophytes with examples. | 7 |
| 8. (A) Explain Halophytes and Epiphytes with examples. | 7 |
| (B) Describe Mesopytes with examples. | 7 |
| 9. Answer in short (Any Eight) | 8 |

- Species Diversity includes...
 - Species Abundance
 - Species Richness
 - Taxonomic Diversity
 - All of the above
- Which is the best example for Ex - situ conservation?
 - Natural Park
 - Botanical Gardens
 - Biosphere Reserves
 - Reserved Forests
- Pond and Rivers are the type of which biomes?
 - Fresh water Biomes
 - Marine Biomes
 - Estuary Biomes
 - Rain Forest Biomes
- Pyramid of numbers for Grassland ecosystem is _____
 - Inverted
 - Lateral

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- (C) Upright
(D) None of the above
5. Which of the following zone lies at the bottom of the sea?
(A) Littoral
(B) Benthic
(C) Neritic zone
(D) Pelagic zone
6. White coat (fur) of Polar bears helps them to
(A) Camouflage
(B) Look Big
(C) Dry Faster
(D) Stay Healthy
7. In Ecological Succession, the intermediate developmental phase is known as
(A) Climax
(B) Nudation
(C) Sere
(D) Ecesis
8. Given what you know of Rain Forest Biomes which statement is most likely True,
(A) Plants and animals are adapted to a lack of water due to heat
(B) Plants and animals are adapted to a lack of water due to freezing temperatures
(C) Rainfall amounts many not be enough to support many trees
(D) Rainfall happens almost every day
9. Which of the following ecosystem consists of forest, grassland and deserts?
(A) Artificial ecosystem
(B) Aquatic ecosystem
(C) Natural ecosystem
(D) Terrestrial ecosystem
10. Lithosphere serves as a reservoir for _____
(A) Nitrogen cycles
(B) Carbon cycles
(C) Oxygen cycles
(D) Phosphorus cycles
11. Decomposers help in _____
(A) Recycles Nutrients
(B) Breaking Down Dead Waste
(C) Both (A) and (B)
(D) None of the above
12. Swollen Stem of Cactus is important for
(A) Absorb more oxygen
(B) Absorb more carbon dioxide

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- (C) Absorb more sunlight
- (D) Absorb more water

13. Autecology is the study of ecology of

- (A) Individual
- (B) Population
- (C) Species
- (D) Both (B) and (C)

14. A food chain starts with a

- (A) Producer
- (B) Consumer
- (C) Decomposer
- (D) Scavenger

15. Plants growing in dried conditions tend to have small number of stomata on their lower leaf surface to save

- (A) Stored Sunlight
- (B) Water Loss
- (C) Energy Loss
- (D) To prevent itself from consumers

16. In ecological succession, the final stable community is known as

- (A) Final Community
- (B) Ultimate Community
- (C) Climax Community
- (D) Seral Community

17. A network of interconnected food chain is called

- (A) Food Web
- (B) Web Cycle
- (C) Chain Web
- (D) Ecosystem

18. The interaction between the members of different species are called _____

- (A) Interspecific interaction
- (B) Competition
- (C) Intraspecific interaction
- (D) Predation

19. The development of vegetation community in any ecosystem or habitat is affected closely by the _____

- (A) Climate
- (B) Physiography and Landforms
- (C) Soils
- (D) All of the above

20. The Ascaris, Entamoeba and Plasmodium are considered as examples of

- (A) Endoparasite

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- (B) Ectoparasite
- (C) Digestion parasites
- (D) Synthetic parasites

21. The kind of symbiosis in which only one partner is benefited and the other is not harmed and benefited is called as _____?

- (A) Temporary parasitism
- (B) Temporary mutualism
- (C) Permanent mutualism
- (D) Commensalism

22. Which of the following is not related to the ecological succession?

- (1) Ecological succession often requires an initiating disturbance, for instance, a volcanic eruption, strong winds, or a practice such as prolonged over - grazing
- (2) The organic realm or biosphere is shown in three compartments: producers, consumers and decomposers.

- (A) Only 1
- (B) Only 2
- (C) Both 1 and 2
- (D) None of the above

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